



## **DVI UTP CAT6 Extender**

### **EX-DVID-CAT**

User manual



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## Safety Tips

For insuring security of users and reliability of the device, please obey the following tips for installation, operations and maintenance.

Before powering on the device, please make sure it is properly grounded. This will avoid static electricity or power leakage from the case. This will also help keep users away from electric shock and reduce the possibility of imperiling the device.

1. No under cooling or over heating.
2. Good ventilation.
3. Turn off the power in wet weather or if device is not being used for long periods.
4. Don't attempt to take apart or repair the device on your own.
5. Don't spill any chemicals or liquid on the device or nearby.



# 1. Introduction

## 1.1 General Instruction

EX-DVID-CAT is a new product for DVI signal extension. By only one single CAT6 cable, EX-DVID-CAT can carry the high resolution of 1920\*1200@60hz DVI signal up to 50 meters.

The transmitter has the function of EDID self-programming. It can store the EDID from monitor to make itself adapt to monitors with different resolutions.

No external power adaptor required at the receiver end if using Covid's 5 pair UTP cable. Transmitter sends TMDS , Power and GND to the receiver by the 5 pair UTP cable.

## 1.2 Features

1. The highest resolution: PC:1920×1200@60Hz  
HDTV, 480i, 480P, 720P, 1080i, 1080P;
2. 1920\*1200@60Hz---50m,1080p---50m
3. Virtual EDID support , no HDCP
4. Particularly designed for connection using CAT 6 cable, it can fasten the RJ45 connector

	Transmitter	Receiver
Input Signal	DVI signal (18+1 male) DVI 1.0 standard	RJ-45 Shield, particular design, fasten the connection
Output Signal	RJ-45 Shield, particular design, fasten the connection	DVI signal (18+1 male) DVI 1.0 standard
Dimension	L: 2.72" × W: 1.54" × H: 20.87"	
Weight	1 oz	
Power	DC 9V, 1A	
Operating Temp.	0.....50 °C	
Storage Temp.	-20.....85 °C	

## Function Introductions

### 1.4.1 Forced working mode and normal working mode

If the DVI interface of your source device is without +5V output, you will need to change EX-DVID-CAT-T (transmitter)'s working mode into forced working mode.

#### Operate as below:

Disconnect EX-DVID-CAT from DVI source device. Press EDID reading button of EX-DVID-CAT-T for 10 second and release it. You will see the red led blinking for 2 second and become normal.

EX-DVID-CAT always works whether there is signal input or not in forced working mode.

**Note:** Once you work in forced working mode, it will need to be changed manually to go back to normal mode. If need to change to normal working mode, please operate as follow:

Disconnect EX-DVID-CAT-T from DVI source device. Press EDID reading button of EX-DVID-CAT-T for 10 second and release it. You will see the red led blinking one time and become normal on. Now it will work in normal working mode. EX-DVID-CAT will sleep when no signal input or display device signal is present.

## Installation and Panel Instructions

### 2.1 Installation

Notes : It is important to follow these instructions in order for proper device usability.

**Step 1:** Connect the power adaptor to Transmitter, and then connected it to the display device's DVI interface. Now press the EDID reading button about 1-2 seconds, the blue led will light up. After 10 seconds the blue led will put out, which means EDID reading was successful.

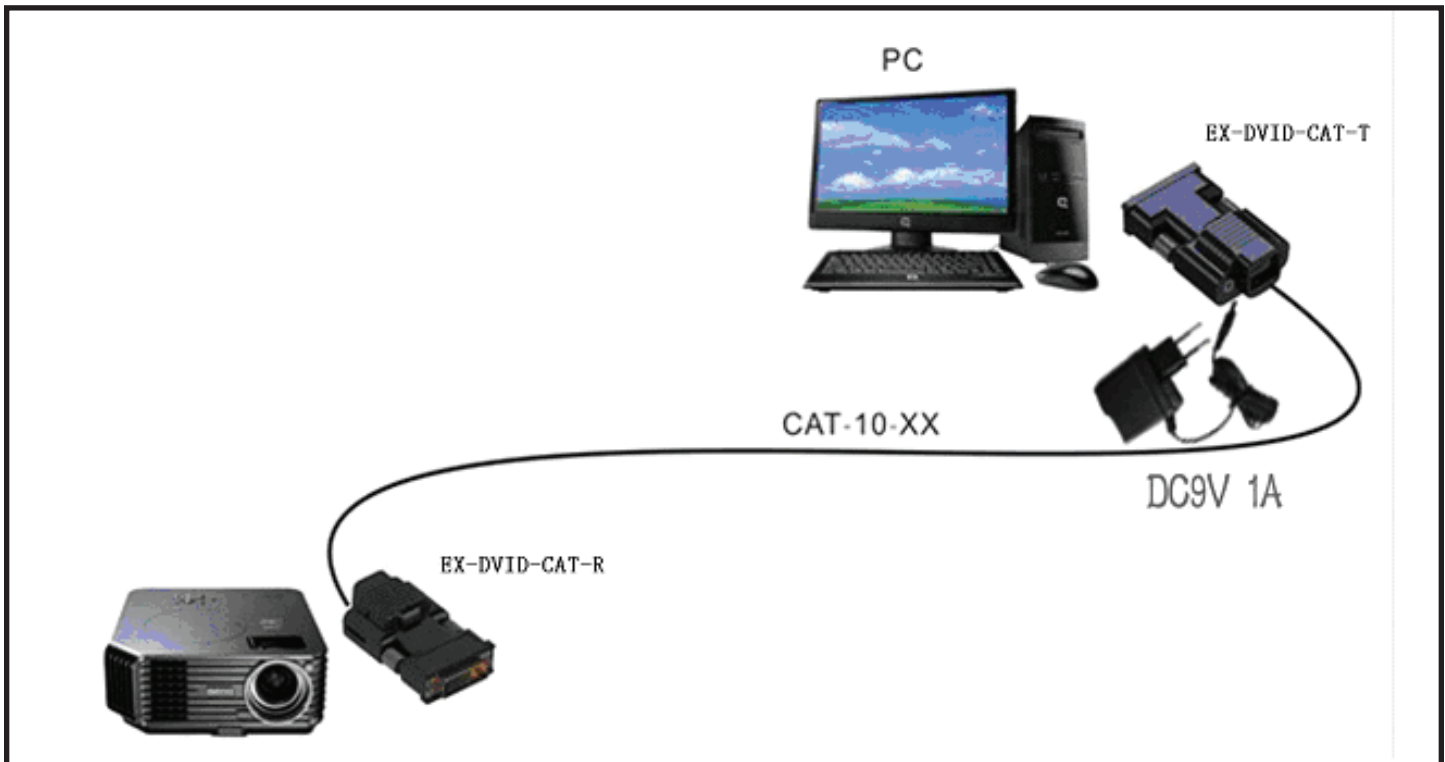
**Step 2:** Connect transmitter's (CDT-SN-T) DVI input to DVI output of signal source, and connect receiver's (EX-DVID-CAT-R) DVI output to DVI input of display.

**Step 3:** Use 10 pin UTP or 8 pin UTP cable to connect between the transmitter and Receiver.

Note: If you use 10 pin cable, no external power adaptor required at receiver. If you use 8 pin cable, both the transmitter and receiver required external power.

**Step 4:** Power on signal source and display, you can see the blue and red led on transmitter alternately flashing about 2 seconds. After the led stays on, this indicates that transmitter has already detected signal source and image signal. The red and blue led will light up on the receiver, which indicates that receiver has already detected the display device. After waiting for 2 - 3 seconds the image should display normally. If you need to change the display, please follow step one to re-read EDID.

## EX-DVID-CAT Application diagram



## Breakdown and Maintenance

### 3.1 Trouble shooting

**Problem:** Transmitter has been connected to signal source, but its LED light keeps blinking.

**Cause:**

1. signal source did not output signal;
2. forget to read EDID

**Fix:**

- 1.Re-connect SN and restart signal source.
- 2.Reread the EDID
- 3.Confirm that it has been connected by power adaptor

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**Problem:** NO function by pressing Key or error function

**Cause:** Timing is off when pressed.

**Fix:** Press EDID read button for 1-2 seconds

**Problem:** No image output

**Cause:**

1. Receiver is lack of power
2. Transmitter is lack of enough power
3. Cat6 cable is not fixed
4. Pin connection of cat6 cable is not right
5. Overflow the limitation of displayer

**Fix:**

1. Receiver needs external power supply when using 8 pin UTP cable.
  2. Transmitter needs external power to make sure power supply is enough.
  3. Check cat6 cable whether is fixed or not at both two side.
  4. Lower resolution
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**Problem:** Transmitter fail to read EDID

**Cause:**

Pressing time is 1-2S

**Fix:**

Pressing button only for 1-2S, and the blue led is on, means EDID has been read successfully.

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**Problem:** Image lost sometime on screen

**Cause:**

1. cat6 cable is longer than 50 meters
2. the bad quality of cat6 cable
3. signal is not stable

**Fix:**

1. Check whether the cat6 cable is over the limitation or not, 1080p make sure less than 50 meters
2. Check the type and quality of cat6 cable used (suggested to purchase single core copper with 0.57mm diameter of copper core and the type is 23AWG).
3. Restart transmitter by power off and on again.

**Problem:** There are noise, red spot, stripe on screen

**Cause:**

1. cat6 cable is longer than 50 meters
2. the bad quality of cat6 cable
3. unfixed connection of the cat6 cable or DVI
4. cat6 cable is 360° bend

**Fix:**

1. Check whether the cat6 cable is over the limitation or not, 1080p make sure less than 50 meters
  2. Check the type and quality of cat6 cable used(it is suggested to purchase single core copper with 0.57mm diameter of copper core and the type is 23AWG).
  3. Check and Fix all connectors
  4. Correct the bend
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**Problem:** Power LED light is off

**Cause:**

1. poor connection to power
2. power adaptor is defective
3. SN is defective

**Fix:**

1. check the power supply connected to socket
2. replace for good power supply
3. return for maintenance



## 3.2 Maintenance

- 1). Clean the device with soft and dry cloth.
- 2). Alcohol, paint thinner or gasoline cleaning are forbidden.
- 3). Protect the device from liquid and dirt.
- 4). For technical problems, please feel free to contact Covid and its authorized distributors anytime. Don't take apart or repair the device on your own.

## 3.3 Warranty

### 3.3.1 Gurantee Information

Covid warrants all devices are in good working order for a period of one year from the date of purchase .If this product isn't in good working order as warranted above, repair or replacement shall be equally provided by Covid. And if necessary, Covid will return the money to the user. Moreover, please pay enough attention to tips below:

- A. Only have the users complied with correct usage and the safety tips mentioned before will be the warranty valid.
- B. During device reparation, all the replaced components which could be new or repaired are to be Covid's property. They have 3 months' warranty or if some of them have their own warranty period, they will only be warranted with the rest period.
- C. No matter if products are in warranty period, Covid won't be responsible for any Information or data stored inside.

### 3.3.2 Limit and Exception

Warranty exceptional situations:

- 1) Misused or modified without permission.
- 2) Working with abnormal voltage, physics force.
- 3) Careless or unexpected operation.
- 4) Damages result from unauthorized services.

However, Covid will offer obligatory services when breakdown is under right usage.

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#### Note:

For technical support, please visit [www.covid.com](http://www.covid.com) for more info, please email us anytime.